ES PATENT AND TRADEMARK OFFICE UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov CONFIRMATION NO. ATTORNEY DOCKET NO. FIRST NAMED INVENTOR 59859 (49157) 5373 Harold R. Garner 10/665,981 09/19/2003 EXAMINER 10/03/2006 7590 LU, CHARLES EDWARD Dianne M. Rees, PhD **EDWARDS & ANGELL LLP** ART UNIT PAPER NUMBER P O Box 9169 Boston, MA 02209 2163

DATE MAILED: 10/03/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	10/665,981	GARNER ET AL.
	Examiner	Art Unit
	Charles E. Lu	2163
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).		
Status		
1) Responsive to communication(s) filed on		
,—	action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is		
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
4) Claim(s) 1-151 is/are pending in the application.		
4a) Of the above claim(s) is/are withdrawn from consideration.		
5) Claim(s) is/are allowed.		
6) Claim(s) is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) <u>1-151</u> are subject to restriction and/or election requirement.		
. Application Papers		
9) The specification is objected to by the Examiner.		
. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).		
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.		
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this National Stage		
application from the International Bureau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list of the certified copies not received.		
Attachment(s)		
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atent Application (FTO-194)

Application/Control Number: 10/665,981

Art Unit: 2163

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-34, 45-61, 64, 68, 69, 109-112, 127-138, and 151, drawn to data mining and knowledge discovery, and creating a comprehensive network of relationships, classified in class 707, subclass 101.
 - Claims 76-90, 97-100, and 150, drawn to application of a data structure and database, classified in class 707, subclass 103.
 - III. Claims 35-44, 45-61, 64, 68, 69, 71-75, 113, 151, and 152 drawn to identifying indications and side effects of a drug, and identifying diseases, chemical compounds, or biomolecules, classified in class 702, subclass 19.
 - IV. Claims 62, 63, 65, 66, 67, 70, 91-96, 101-108, and 139-149 drawn to identifying strength of relationships using statistically bounded network models, classified in class 707, subclass 102.
 - V. Claims 114-123, drawn to methods of treating various diseases, classified in class 424, subclass 1.11.
 - VI. Claims 124-126, and 151, drawn to identification of nucleic acid sequences, classified in class 702, subclass 20.
- 2. The inventions are distinct, each from the other because of the following reasons:

Art Unit: 2163

Inventions I - VI are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable.

In the instant case, invention I has separate utility such as data mining and knowledge discovery, and creating a comprehensive network of relationships.

Invention II has separate utility such as application of a data structure and database.

Invention III has separate utility such as identifying indications and side effects of a drug, and identifying diseases, chemical compounds, or biomolecules

Invention IV has separate utility such as identifying strength of relationships using statistically bounded network models.

Invention V has separate utility such as treating various diseases.

Invention VI has separate utility such as identification of nucleic acid sequences.

3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper. Furthermore, there would be a serious burden on the examiner if restriction were not required (see MPEP §803.02, §808, and §808.02).

Page 4

Application/Control Number: 10/665,981

Art Unit: 2163

4. Applicant is advised that the reply to this requirement to be complete must

include an election of the invention to be examined even though the requirement is

traversed (37 CFR 1.143).

5. Applicant is reminded that upon the cancellation of claims to a non-elected

invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one

or more of the currently named inventors is no longer an inventor of at least one claim

remaining in the application. Any amendment of inventorship must be accompanied by

a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Application/Control Number: 10/665,981

Art Unit: 2163

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles E. Lu whose telephone number is (571) 272-8594. The examiner can normally be reached on 8:30 - 5:00; M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CL Assistant Examiner AU 2163 9/28/2006

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